

CSE 465 Final

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I. TAB

Number N

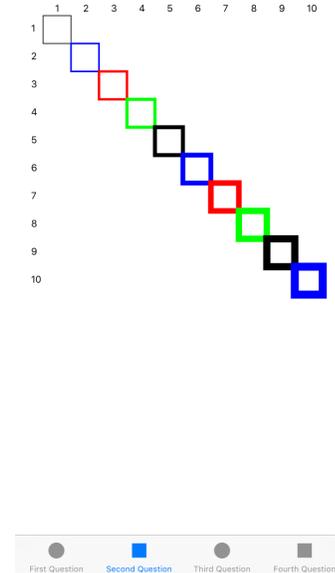
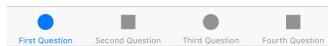
10 times N

Half of N

Calculate Half of N

Time (Seconds)

[Stop Timer](#)



Solve the first tab in a class named **Question1** which extends the `UIViewController` class.

When the user enters a number in the `TextField` "Number N", 10 times of that number will be displayed in the `TextField` "10 times N".

When the user presses "Calculate Half of N" button, half of that number will be displayed in the `TextField` "Half of N".

If the "Number N" text field is empty, "not a number" message must be displayed in the "10 times N" `TextField`, and the "Calculate Half of N" button will be disabled.

The text displayed in the `TextField` "Number N" must be retrieved from user defaults file and also must be saved into user defaults file if it is changed.

There is a timer displayed in the `TextField` "Time (Seconds)". Timer starts from 1 and increases by 1 at each second. When the user presses "Stop Timer" button, timer will be stopped.

II. TAB

Solve the second tab in a class named **Question2** which extends the `UIView` class.

Draw 10 squares of width 35 starting from the upper corner of the screen. The colors of the squares alternate between colors black, blue, red, green. The line width of the square will be increased at each time starting from 1.

There are also two sets of numbers drawn. One set starts from the upper left corner, increases until the upper right corner. Second set starts from the upper left corner, increases until the lower left corner.

III. TAB

You should define a class **Match** to store the results of a football match. Solve the third tab in a class named **Question3** which extends the `UITableViewController` class.

Read the contents of the matches from a file named "matches.txt". "matches.txt" file contains:

```
Fenerbahçe;2;Galatasaray;3
Fenerbahçe;1;Beşiktaş;2
Galatasaray;2;Besiktas;0
...
```

After that, display the contents of the matches will be displayed in a `Tableview`.



```
<teamlist>
  <team name="Trabzonspor" score="7"></t
  <team name="Galatasaray" score="5"></t
  <team name="Fenerbahce" score="4"></te
  <team name="Besiktas" score="2"></team
</teamlist>
```

IV. TAB

Solve the third tab in a class named **Question4** which extends the UIViewController class.

There are four pictures of the teams "Trabzonspor.png", ..., "Besiktas.png", and there are nine pictures of points "0.png" ... "8.png".

There are four UIImageView's on the left side, and four UIImageView's on the right side. The first four and the second four UIImageViews must be declared in OutletCollections and must be processed with tags.



The data should be loaded from xml file "score-list.xml":